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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/017,446	12/14/2001	Eiichi Ibata	MAT-8210US	6366	
7:	590 07/31/2002				
RATNER AND PRESTIA			EXAMINER		
Suite 301 One Westlakes, Berwyn			ELKASSABGI, HEBA		
P.O. Box 980 Vallev Forge, F	PA 19482-0980		ART UNIT	PAPER NUMBER	
• 57			2834		
			DATE MAILED: 07/31/2003	2	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	n No.	Applicant(s)	,			
Office Action Summary		10/017,446	3	IBATA ET AL.				
		Examiner		Art Unit				
		Heba Elka	_	2834				
Period fo	The MAILING DATE of this communica r Reply	ation appears on the	cover sheet v	vith the correspondence add	ress			
THE N - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply will eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no ever ication. days, a reply within the stature tory period will apply and will by statute, cause the apply.	nt, however, may a tory minimum of th expire SIX (6) MC cation to become	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this cor  ABANDONED (35 U.S.C. § 133).	nmunication.			
1)⊠	Responsive to communication(s) filed	d on <u>14 December 2</u>	<u>001</u> .					
2a) <u></u>	This action is <b>FINAL</b> . 2b	o)⊠ This action is	non-final.					
3)  Dispositi	Since this application is in condition f closed in accordance with the practic ion of Claims	or allowance except e under <i>Ex parte Qu</i>	for formal m layle, 1935 (	atters, prosecution as to the C.D. 11, 453 O.G. 213.	e merits is			
•	Claim(s) 1-16 is/are pending in the ap	oplication.						
•	4a) Of the above claim(s) is/are		nsideration.					
	Claim(s) is/are allowed.							
, —	6)⊠ Claim(s) <u>1-16</u> is/are rejected.							
	7) Claim(s) is/are objected to.							
-	Claim(s) are subject to restriction	on and/or election re	equirement.					
Application Papers								
•	The specification is objected to by the							
10)	The drawing(s) filed on is/are: a							
	Applicant may not request that any object							
11)	The proposed drawing correction filed			I disapproved by the Examine	er.			
If approved, corrected drawings are required in reply to this Office action.								
,	The oath or declaration is objected to be	by the Examiner.						
-	under 35 U.S.C. §§ 119 and 120			2 2 4 4 2 4 2 4 2 4 2 2				
	Acknowledgment is made of a claim f	for foreign priority ur	ider 35 U.S.(	J. § 119(a)-(d) or (f).				
a)	N All b) Some * c) None of:							
	1. Certified copies of the priority d							
	2. Certified copies of the priority d							
*	<ol> <li>Copies of the certified copies of application from the Internation action</li> <li>See the attached detailed Office action</li> </ol>	ational Bureau (PCT	Rule 17.2(a)	)).	Stage			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
	a) ☐ The translation of the foreign land Acknowledgment is made of a claim fo	guage provisional ap	oplication has	s been received.				
Attachme								
2) 🔲 Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PT rmation Disclosure Statement(s) (PTO-1449) Pa			ew Summary (PTO-413) Paper No of Informal Patent Application (PT				

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# **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 2. Claims 15,18, and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claimed subject matter of "a holder made of a soft material" needs to be clearly stated in the claims as to the type of soft material that the holder is made of.
- 3. Claim 9 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claimed subject matter of "a mechanism for powering said motor," needs to be clearly stated in the claims as to what the mechanism is.

#### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 5. Claims 1,2,3, and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ibata et al. (J.P. #10-217272) and further in view of Koyama (J.P. #08-067449) and Obara (U.S. Patent 6420809 B1).
- 6. Ibata et al. discloses in Figure 1 a motor with a cylindrical frame (1) having a pipe (2) that is disposed within the frame (1) in which the frame and pipe are fitted as a union with one another. A cylindrical magnet (3) is fixed to an outer wall of the pipe (2) and at an inner wall of the magnet. However, Ibata et al. does not disclose a vibrating motor with a pipe having a sintered bearing press-fitted and that the frame is ferromagnetic material.
- 7. Koyama illustrates in Figure 1 a vibrating motor having a cylindrical coil (21) which is facing a magnet (17 and 18) via an annular gap in which the magnetic current flows through in order to rotate the vibrating motor and that the bearings (13 and 14) are press fitted with the housing (pipe) (12), for the purpose of obtaining an efficient rotation.
- 8. Obara discloses in Figure 12 a bearing that is sintered bearing and press fitted for the purpose of having a high accuracy of assembly and a low manufacturing cost.
- 9. It would have been obvious to one of ordinary skill in the art to combine the reference of Ibata et al. with the cylindrical coil and bearings of the vibrating motor of Koyama for the purpose of the magnetic current flow through the coils in order to rotate the vibrating motor and the bearings in order to obtaining an efficient rotation and the

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F.2<sup>nd</sup> 997, 156 USPQ 679.

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reference of Obara in relation to the type of bearing in order to have a high accuracy of assembly and a low manufacturing cost.

- 10. In regards to Claim 1, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use a ferromagnetic material in constructing the frame since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.
- 11. In regards to Claim 2, where no patentable weight has been given to the method of manufacturing limitations (i.e. welding, laser welding) since "even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by –process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F2nd 695, 698,227 USPQ 12. In regards to Claim 3, where the range of article sizes disclosed in the prior art envelopes the recited range, and there is no showing of criticality of the recited range, such recited range would have been one of ordinary skill in the art. *In re Reven*, 390

13. Claims 5,6,7, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama (J.P. #08-067449 and further in view of Obara (U.S. Patent 6420809 B1).

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14. Koyama illustrates in Figure 1 a vibrating motor having a cylindrical frame (11) with bearings (12) fitted within the frame and cylindrical magnets (17 and 18) that are fixed on an outer wall of the bearing (12) and at an inner wall of a magnet (17 and 18). In addition a cylindrical coil (21) that is facing a magnet (17 and 18) via an annular gap in which the magnetic current flows through in order to rotate the vibrating motor and that the bearings (13 and 14) are press fitted with the housing (pipe) (12). However, Koyama does not illustrate a motor having sintered bearings and the frame and bearing are welded.

- 15. Obara discloses in Figure 12 a bearing that is sintered bearing and press fitted for the purpose of having a high accuracy of assembly and a low manufacturing cost.
- 16. It would have been obvious to one of ordinary skill in the art to combine the reference of Koyama with the sintered bearings of Obara for the purpose of having a high accuracy of assembly and a low manufacturing cost.
- 17. In regards to Claim 5, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use a ferromagnetic material in constructing the frame since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.
- 18. In regards to Claim 6, where no patentable weight has been given to the method of manufacturing limitations (i.e. welding, laser welding) since "even though product-by-process claims are limited by and defined by the process, determination of patentability

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is based on the product itself. The patentabitly of a product does not depend on its method of production. If the product in the product-by –process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F2nd 695, 698,227 USPQ 19. In regards to Claim 7, where the range of article sizes disclosed in the prior art envelopes the recited range, and there is no showing of criticality of the recited range, such recited range would have been one of ordinary skill in the art. *In re Reven*, 390 F.2<sup>nd</sup> 997, 156 USPQ 679.

- 20. Claims 9, 10,11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ibata et al. (J.P. #10-217272) and further in view of Koyama (J.P. #08-067449) and Obara (U.S. Patent 6420809 B1) and Okuyama et al. (U.S. Patent 5798588).
- 21. Ibata et al. discloses in Figure 1 a motor with a cylindrical frame (1) having a pipe (2) that is disposed within the frame (1) in which the frame and pipe are fitted as a union with one another. A cylindrical magnet (3) is fixed to an outer wall of the pipe (2) and at an inner wall of the magnet. However, Ibata et al. does not disclose a vibrating motor with a pipe having a sintered bearing press-fitted and that the frame is ferromagnetic material and a housing with the motor disposed within.
- 22. Koyama illustrates in Figure 1 a vibrating motor having a cylindrical coil (21) which is facing a magnet (17 and 18) via an annular gap in which the magnetic current flows through in order to rotate the vibrating motor and that the bearings (13 and 14) are

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press fitted with the housing (pipe) (12), for the purpose of obtaining an efficient rotation.

- 23. Obara discloses in Figure 12 a bearing that is sintered bearing and press fitted for the purpose of having a high accuracy of assembly and a low manufacturing cost.
- Okuyama et al. discloses in Figure 1 a vibrating motor 13 having a housing (casing) (10) with the motor disposed within the casing in order to provide a shell for the motor.
- 25. It would have been obvious to one of ordinary skill in the art to combine the reference of Ibata et al. with the cylindrical coil and bearings of the vibrating motor of Koyama for the purpose of the magnetic current flow through the coils in order to rotate the vibrating motor and the bearings in order to obtaining an efficient rotation and the reference of Obara in relation to the type of bearing in order to have a high accuracy of assembly and a low manufacturing cost and Okuyama et al.'s casing in order to provide a shell for the motor.
- 26. In regards to Claim 9, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use a ferromagnetic material in constructing the frame since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.
- 27. In regards to Claim 10, where no patentable weight has been given to the method of manufacturing limitations (i.e. welding, laser welding) since "even though product-by-process claims are limited by and defined by the process, determination of

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patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by –process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F2nd 695, 698,227 USPQ

- 28. In regards to Claim 11, where the range of article sizes disclosed in the prior art envelopes the recited range, and there is no showing of criticality of the recited range, such recited range would have been one of ordinary skill in the art. *In re Reven*, 390 F.2<sup>nd</sup> 997, 156 USPQ 679.
- 29. Claims13, 14,15, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama (J.P. #08-067449 and further in view of Obara et al. (U.S. Patent 6420809 B1) and Okuyama et al. (U.S. Patent 5798588).
- 30. Koyama illustrates in Figure 1 a vibrating motor having a cylindrical frame (11) with bearings (12) fitted within the frame and cylindrical magnets (17 and 18) that are fixed on an outer wall of the bearing (12) and at an inner wall of a magnet (17 and 18). In addition a cylindrical coil (21) that is facing a magnet (17 and 18) via an annular gap in which the magnetic current flows through in order to rotate the vibrating motor and that the bearings (13 and 14) are press fitted with the housing (pipe) (12). However, Koyama does not illustrate a motor having sintered bearings and the frame and bearing are welded.

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31. Obara discloses in Figure 12 a bearing that is sintered bearing and press fitted for the purpose of having a high accuracy of assembly and a low manufacturing cost.

- 32. Okuyama et al. discloses in Figure 1 a vibrating motor 13 having a housing (casing) (10) with the motor disposed within the casing in order to provide a shell for the motor.
- 33. It would have been obvious to one of ordinary skill in the art to combine the reference of Koyama with the sintered bearings of Obara in relation to the type of bearing in order to have a high accuracy of assembly and a low manufacturing cost and Okuyama et al.'s casing in order to provide a shell for the motor.
- 34. In regards to Claim 13, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use a ferromagnetic material in constructing the frame since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.
- 35. In regards to Claim 14, where no patentable weight has been given to the method of manufacturing limitations (i.e. welding, laser welding) since "even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by –process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F2nd 695, 698,227 USPQ 946,966.

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36. In regards to Claim 15, where the range of article sizes disclosed in the prior art envelopes the recited range, and there is no showing of criticality of the recited range, such recited range would have been one of ordinary skill in the art. *In re Reven*, 390 F.2<sup>nd</sup> 997, 156 USPQ 679.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heba Elkassabgi whose telephone number is (703) 305-2723. The examiner can normally be reached on M-Th (6:30-3:30), and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

NESTOR RAMIREZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2809

Heba Yousri Elkassabgi July 29, 2002